FUNCTIONAL INDEPENDENCE MATHEMATICS
EXTENDED GRADE LEVEL CONTENT EXPECTATIONS
GRADE 7

Grade 7 Extended Grade Level Content Expectation (EGLCE)	Level Assessed Classroom/LEA/ISD and/or State
NUMBERS AND OPERATIONS	
Topic 1: Count, write and order whole numbers	
N.ME.07.EG01 Read, write and count using whole numbers to 100,000 in numerals and words, and relate them to the quantities they represent.	Classroom/LEA/ISD and State
N.ME.07.EG02 Explore and recognize equivalent representations for whole numbers to 100,000.	Classroom/LEA/ISD and State
N.ME.07.EG03 Express numbers to 100,000 using place value.	Classroom/LEA/ISD and State
N.ME.07.EG04 Order numbers to 100,000; compare whole numbers using phrases such as same as, more than, greater than, fewer than, and use = symbol.	Classroom/LEA/ISD and State
N.ME.07.EG05 Round whole numbers to the nearest one, ten, hundred or thousand.	Classroom/LEA/ISD and State
N.MR.07.EG06 Create, describe, and extend simple number patterns, including patterns that involve data.	Classroom/LEA/ISD and State
N.MR.07.EG07 Explain how to find the next number in a simple repeating pattern.	Classroom/LEA/ISD and State
N.MR.07.EG08 Identify the pattern in a multiplicative sequence, e.g. given the sequence 3, 6, 9, …, the pattern is multiples of 3.	Classroom/LEA/ISD

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Topic 2: Compute with whole numbers	
N.FL.07.EG09 Add and subtract one-, two- and three-digit numbers, written in words or numerals, with regrouping.	Classroom/LEA/ISD and State
N.MR.07.EG10 Solve simple open sentences for addition, subtraction, multiplication and division.	Classroom/LEA/ISD and State
N.FL.07.EG11 Find products fluently up to 10 x 10; find related quotients using multiplication and division relationships and fact families.	Classroom/LEA/ISD and State
N.MR.07.EG12 Find solutions to open sentences, such as 7 x □ = 42 or 12 ÷ □ = 4, using the inverse relationship between multiplication and division.	Classroom/LEA/ISD and State
N.FL.07.EG13 Calculate simple products, up to and including 2 two-digit numbers, and simple quotients, up to and including a two-digit number by a one-digit number.	Classroom/LEA/ISD and State
N.MR.07.EG14 Solve simple division problems involving remainders, viewing remainder as the "number left over" (less than the divisor); e.g., 4 children per group; we have 25 children; there are 6 groups with 1 child left over; interpret based on problem context.	Classroom/LEA/ISD and State
Topic 3: Fractions and Decimals	
N.ME.07.EG15 Recognize, name, represent and write commonly used unit fractions with denominators of 12 or less; model $\frac{1}{2}$, $\frac{1}{3}$, and $\frac{1}{4}$ by folding strips.	Classroom/LEA/ISD and State
N.ME.07.EG16 Place 0 and halves, e.g., $\frac{1}{2}$, $1\frac{1}{2}$, $2\frac{1}{2}$, on the number line; relate to a ruler.	Classroom/LEA/ISD and State

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N.MR.07.EG17 Compare and order unit fractions from 1/100 to 1/2.	Classroom/LEA/ISD and State
N.MR.07.EG18 Compare and order fractions within the same fraction family.	Classroom/LEA/ISD and State
N.ME.07.EG19 Recognize that fractions such as $\frac{2}{2}$, and $\frac{3}{3}$ and $\frac{4}{4}$ are equal to the whole (one).	Classroom/LEA/ISD and State
N.ME.07.EG20 Understand that any fraction can be written as a sum of unit fractions, e.g., $\frac{3}{4}=\frac{1}{4}+\frac{1}{4}+\frac{1}{4}$.	Classroom/LEA/ISD and State
N.MR.07.EG21 Multiply fractions by whole numbers, using repeated addition and area or array models.	Classroom/LEA/ISD and State
N.ME.07.EG22 Understand and use decimal fractions up to 2 decimals.	Classroom/LEA/ISD and State

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Topic 4: Problem solving and estimation	
N.FL.07.EG23 Apply estimation in solving problems involving addition, subtraction, multiplication or division.	Classroom/LEA/ISD and State
N.MR.07.EG24 Select appropriate numbers in order to solve problems, write number sentences and solve.	Classroom/LEA/ISD and State
N.MR.07.EG25 Solve applied problems using the four basic arithmetic operations for whole numbers.	Classroom/LEA/ISD and State
ALGEBRA	
Topic 1: Expressions and equations	
A.FO.07.EG01 Solve applied problems involving rates, including speed, e.g., if a car is going 50 miles per hour, how far will it go in 3 hours.	Classroom/LEA/ISD and State
A.FO.07.EG02 Represent information given in words using algebraic expressions and equations.	Classroom/LEA/ISD and State

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MEASUREMENT	
Topic 1: Measure and use units	
M.UN.07.EG01 Select and use standard tools for measurement of length, time, weight, volume and temperature.	Classroom/LEA/ISD and State
M.UN.07.EG02 Select appropriate units of measure for length, time, weight, area, volume and temperature (degrees Fahrenheit, °F, only) for a given context.	Classroom/LEA/ISD and State
M.UN.07.EG03 Measure and compare integer temperatures in degrees (degrees Fahrenheit, °F, only).	Classroom/LEA/ISD and State
M.UN.07.EG04 Measure lengths to the nearest quarter-inch using a ruler.	Classroom/LEA/ISD and State
M.UN.07.EG05 Measure area by counting squares on a grid for rectangular shapes.	Classroom/LEA/ISD
M.UN.07.EG06 Measure volume by counting blocks that fit into a rectangular prism.	Classroom/LEA/ISD
M.UN.07.EG07 Understand and use terms such as circumference and distance around a rectangle.	Classroom/LEA/ISD and State
M.UN.07.EG08 Measure the distance around a rectangle (perimeter).	Classroom/LEA/ISD and State

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M.UN.07.EG09 Convert one unit of measure to a larger or smaller unit of measure, given the conversion factor.	Classroom/LEA/ISD and State
M.UN.07.EG10 Tell time on a twelve-hour radial clock or digital clock to the nearest half-hour . Address A.M. and P.M. Add or subtract multiples of 5 minutes.	Classroom/LEA/ISD and State
M.UN.07.EG11 Use equivalent calendar units.	Classroom/LEA/ISD and State
M.PS.07.EG12 Solve one- or two-step word problems using addition and subtraction of length, time, weight, area, volume or temperature.	Classroom/LEA/ISD and State
Topic 2: Money	
M.UN.07.EG13 Recognize equivalent sets of coins and bills.	Classroom/LEA/ISD and State
M.PS.07.EG14 Tell the amount of money in dollars and cents up to and including $100. Use the symbols $ and ¢.	Classroom/LEA/ISD and State
M.PS.07.EG15 Add and subtract money in dollars and cents, and combinations of dollars and cents (no decimals), up to and including $100.	Classroom/LEA/ISD and State

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GEOMETRY	
Topic 1: Identify and describe shapes	
G.LO.07.EG01 Describe and use relative position of objects on a plane and in space using words such as above, below, over, under, behind, in front of, right, left.	Classroom/LEA/ISD And State
Topic 2: Use maps and grids	
G.LO.07.EG02 Find and name locations using simple coordinate systems such as maps and first quadrant grids.	Classroom/LEA/ISD and State
G.LO.07.EG03 Read, interpret and use maps and grids with legends. Understand and use directions such as north, south, east and west and directional turns such as left and right.	Classroom/LEA/ISD and State

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DATA ANALYSIS	
Topic 1: Explore Data	
D.RE.07.EG01 Read data from charts, tables, bar graphs, circle graphs, tallies, and pictographs with a scale up to ten.	Classroom/LEA/ISD and State
D.RE.07.EG02 Draw, explain and justify predictions and conclusions from data presented in tables, graphs and charts.	Classroom/LEA/ISD and State
D.RE.07.EG03 Describe the shape of data using informal language, e.g. increasing, decreasing, stays the same.	Classroom/LEA/ISD and State
D.RE.07.EG04 Solve problems using data presented in tables, bar graphs, circle graphs, tallies and pictographs, including graphs and charts that have more than one set of data.	Classroom/LEA/ISD and State

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